Bedford Solar





O2 emc, LLC Bedford Solar

Adam Foodman – Principal and C.O.O.

Who is O2 EMC?



What do we do?

 We Develop and Own 1-20 MW Solar Power Plants

 Independent Power Producer (IPP)

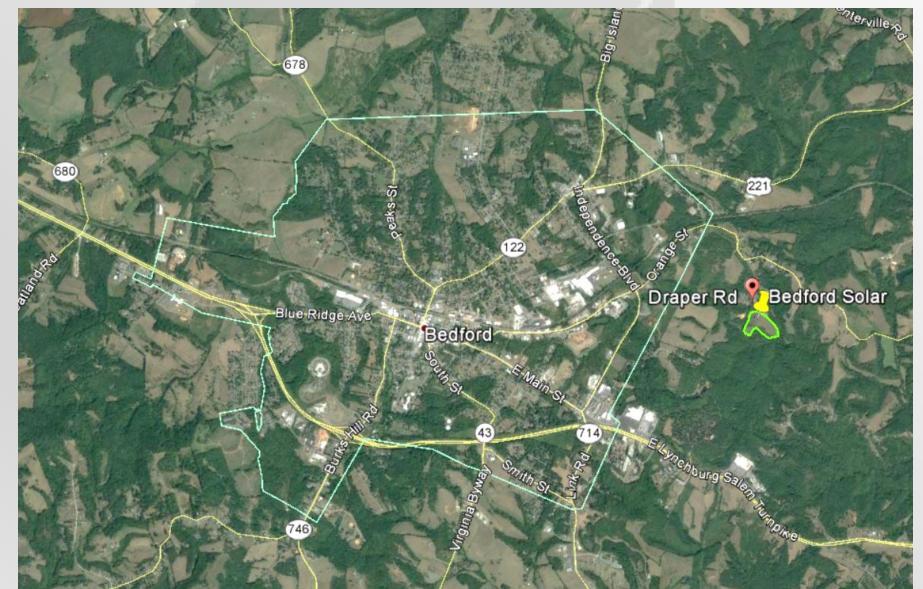
Who are our Partners?

- Towns, Cities, Counties
- Contractors
- Utilities
- Manufacturers
- Banks, Investors
- Where are we focused?
 - Southeast



Bedford Solar Farm





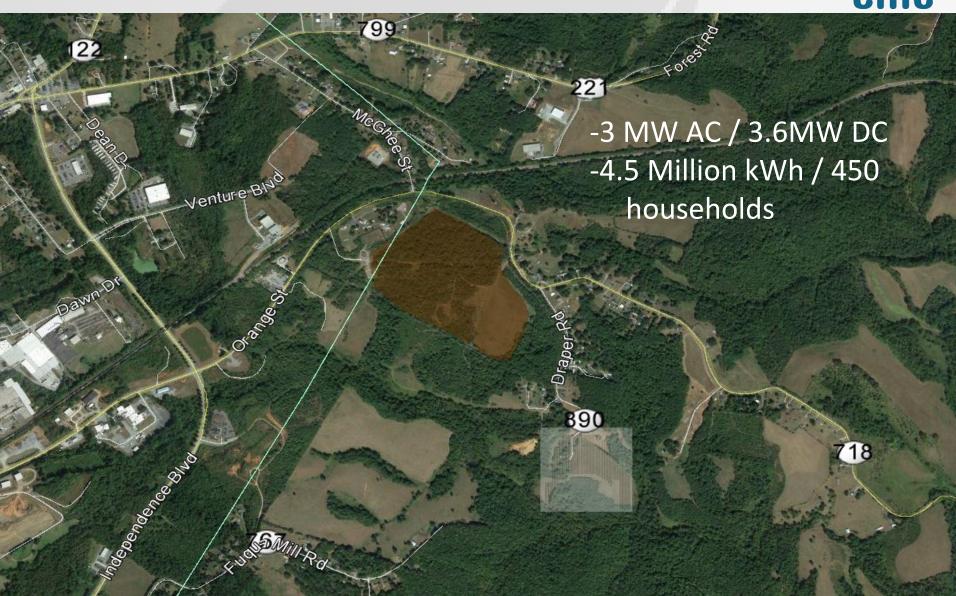
Bedford Solar Site location in relation to Draper Rd. landfill:





Bedford Solar Site location in relation to Draper Rd. landfill:





Timeline



June-16

- Conversation with the Town of Bedford regarding solar proposal
- Introduction to landfill site and history

Aug-16

• In-person site reconnaissance

Sept-16

• Initial drafting of lease from the Town for landfill site

Oct-16

- Information request to VADEQ related to landfill
- Third-party Phase I Environmental Site Assessment
- Development of site layout minimizing impact on land and interference with monitoring of landfill

Nov-16

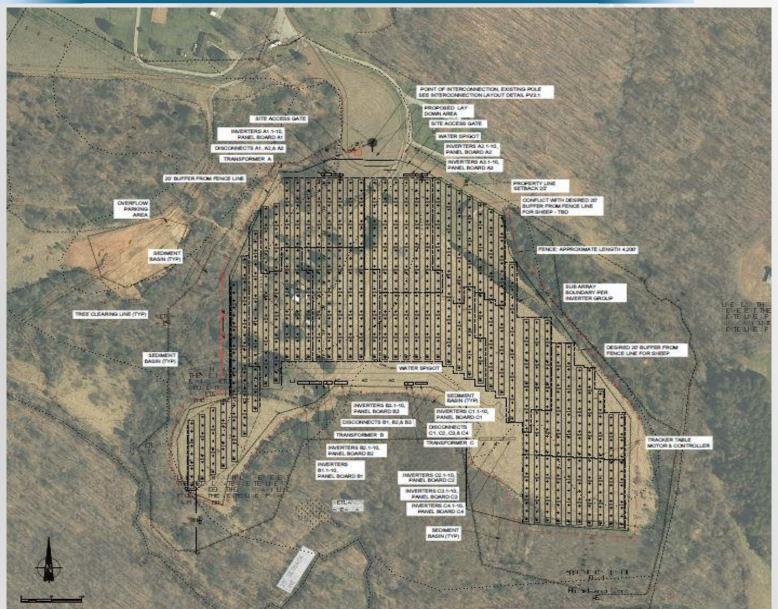
- Correspondence with VAQEQ regarding proposed site layout and inquiry into necessary documentation to develop
- Request for Bona Fide Prospective Purchaser (BFPP) and Contiguous Property Owner (CPO) letters
- Execution of lease with Town of Bedford

Dec-16

- Execution of BFPP and CPO letters
- Start of civil engineering based on layout

Design and Engineering





Bedford Solar Modules



- REC Twin Peak Energy 72
 - 335 Watts per module
 - 10,746 modules
 - REC is a top-5 performer in the SVTC solar scorecard for the environmental responsibility of solar panel manufacturers, has earned the IAIR Award for "Best Solar Company for Sustainability" two years running





20

million panels manufactured



5 gigawatts generated



million people powered at home



Founded in 1996

Headquarters in **Norway**

Bedford Solar Inverters



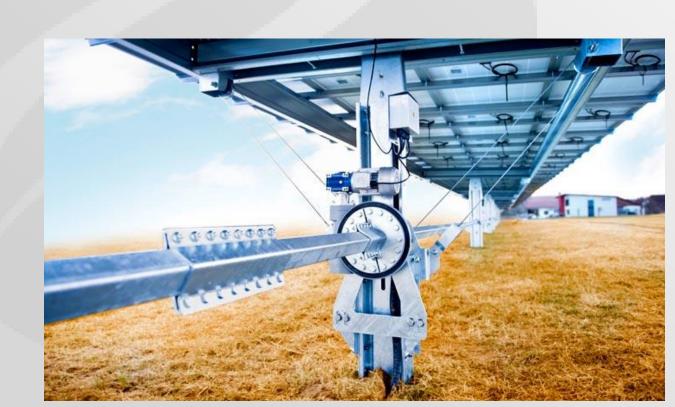
- HUAWEI String Inverter
 - 30 KW
 - 100 String inverters
 - Huawei Technologies is the world's largest telecommunications equipment manufacturer.
 - Huawei's inverters come with the same quality control constraints that they bring to the telecommunications industry
 - Huawei has 0 tolerance for equipment failure.
 - High efficiency. Designed with three MPP trackers, IP65 natural cooling, no quick-wear parts



Bedford Tracking System



- Ideematec Safe Track Horizon
 - Top performance
 - Multi-terrain talent, up to 17 degree slope
 - Highest PV power density
 - 115 MPH
 - Solid



Local Engagement Project Kick Off, Job Fair, Project Overview





Local Work Opportunities



- Will provide work opportunities for 50+ individuals during construction
- Will create positive media attention to site in Bedford that can be used for economic development benefits in area



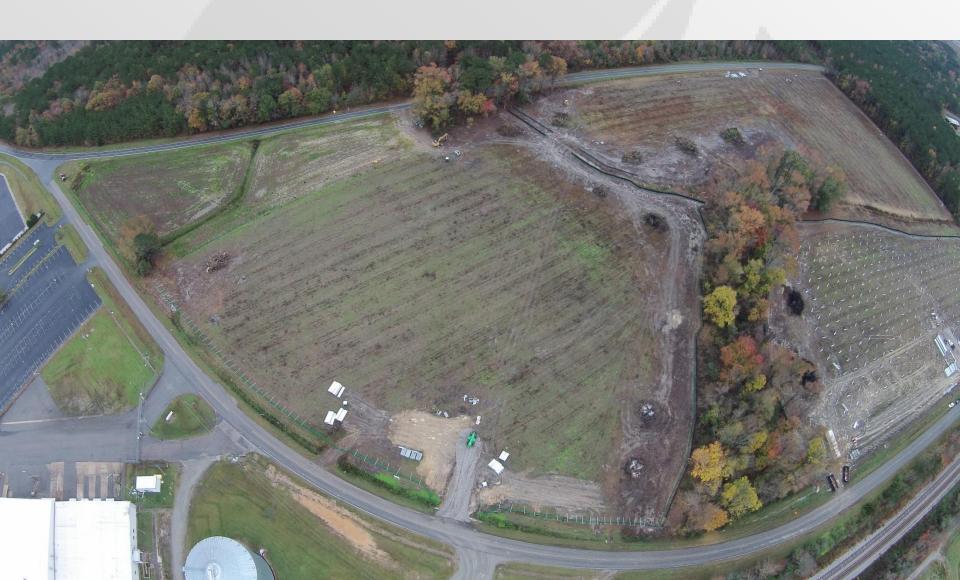
Site Preparation





Column Installation





Racking Installation





Module Installation





DC Wiring





Inverter Pad Construction





Inverter, Transformer Install, AC Work

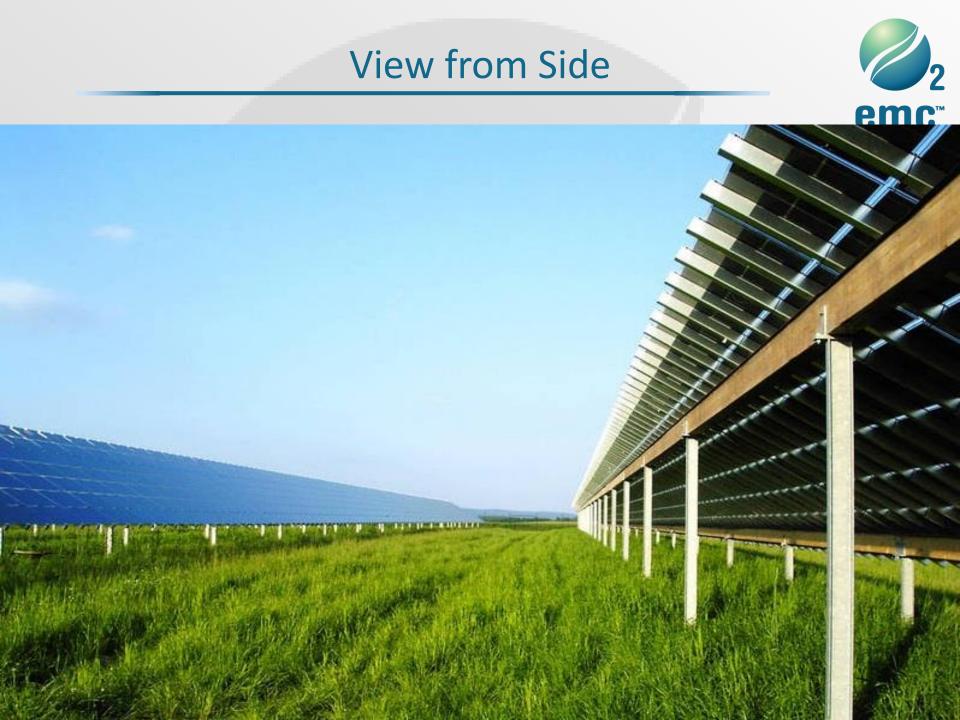




Utility Interconnection Work







Benefits to Bedford VA

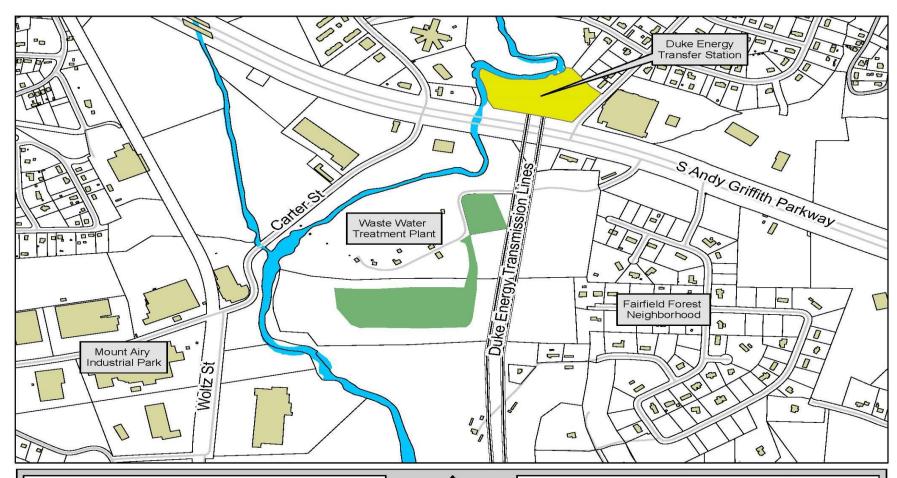


- Job creation, workforce training for 50 individuals
- Regional and state-level public relations benefits
- Local economic development: Attract Large Employers
- Locally generated energy with long term cost stability



Mayberry Solar Farm – Mount Airy NC





City of Mount Airy Planning & Community Development

1 inch = 650 feet Date: May 5, 2011 Drawn By: Dustin Stephens

Post Office Box 70 Mount Airy, North Carolina 27030



Parcels

Structures
Ararat River

Legend O2 Energies Solar Farm on Wastewater Treatment Plant Site

DISCLAMER: The information contained on this map is NOT to be construed or used as a "legal description". Map information is believed to be accurate but accuracy is not guaranteed. Any errors or omissions should be reported to the city of sound Any Peiming logisations of the content value but on the content of the city of sound any peiming logisations of the content value but on the city of the city

Mayberry Solar Farm – Mount Airy NC





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Corporate Interest in Solar

Economic Development Opportunities



- Apple
- Google
- GlenRaven
- Old Dominion Freight Lines
- First Citizen
- SAS
- QVC
- Sherwin Williams
- Uwharrie Bank
- Aquesta Bank
- IKEA
- **GE**
- Shoe Show
- Many Others



Local Agriculture





Local Education





